

## ABSTRACT

A facility enables an external application program (EAP) to exchange data with a modeling program, such as a computer-aided design (CAD) program. The data may be parametric data used in parametric models of geometric objects in the CAD program. In one embodiment, the EAP registers with the CAD program to indicate that the EAP provides output data to the CAD program for use within a model. When the CAD program needs to reevaluate a model due to changes, the CAD program calls a callback that results from the registration of the EAP with the CAD program. The callback sends new input data to the EAP, causes the EAP to recalculate the output data and pass the new output data to the CAD program. The CAD program then integrates the new output data into the model so as to fully update the model.

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